

Business Analysis Summary

Olist is a comprehensive e-commerce platform that bridges the gap between SMBs and large online marketplaces. It offers a range of services, including marketplace integration, logistics support, customer service, and analytics, helping sellers streamline their operations and increase their sales. Through its revenue-sharing and subscription-based model, Olist aligns its success with the success of its sellers, driving growth and efficiency in the e-commerce sector

Key Insights:

Product Categories:

- Top categories include Home, Sports and Leisure, and Electronics
- Products vary widely in price, from high-value items like furniture to more affordable products like garden tools

Order Value Distribution:

- Average order value is R\$138, significantly higher than the median order value of R\$87 suggesting a right-skewed distribution with a long tail of higher-value orders
- Higher-value orders, although fewer in number, have a substantial impact on total sales

High-Value Orders:

- Olist has 1.7k orders that are over R\$1,000 in value contributing to R\$1.5M in total sales
- The 1.7k orders make up less than 2% of total orders but account for over 11% of total sales
- About 75% of orders are roughly under R\$150
- The top 25 percentile by order value show a range of roughly R\$150 to as high as R\$13k
- high-value orders suggests the occurrence of bulk purchases or the sale of big-ticket items

Customer reviews:

- High variability in sales month to month contributed to poor delivery performance and lower customer satisfaction scores

Sellers:

- Olist has a concentration of top sellers where 17.5% of sellers are accountable to 80% of total sales

Possible Strategic Initiatives:

Target Marketing and Customer Segmentation:

- Segment high-value and low-value customers
- Implement a loyalty program or exclusive benefits for high-spending customers to increase retention and encourage repeat purchases
- Segment based on categorical interests

Enhanced Sales Forecasting

- Inaccurate sales forecasts can have a ripple effect and can lead to issues with inventory, delivery performance, and customer satisfaction
- Forecasting is the foundational piece in planning
- Understand if logistics partners have optimal capacity

Seller Management:

- Provide additional support and resources to top sellers who contribute significantly to total sales
- This could include dedicated account managers, advanced analytics tools, and marketing support
- Implement programs to help smaller sellers grow and improve their performance
- This could involve training, resources on best practices, and incentives for meeting sales targets



Total Sales by Category and Subcategory

2M

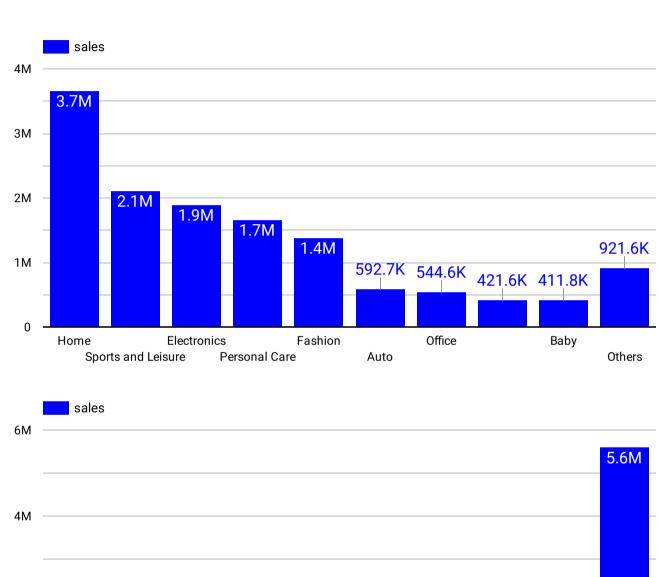
of Unique Products

32,951

Interactive cross-filtering enabled: click on any of the categories in the table or any of the bars in the charts to filter the other visuals. All visuals can show either Category or Subcategory just by using the drilldown arrows in each visual

	category	sales *
1.	Home	3.7M
2.	Sports and Leisure	2.1M
3.	Electronics	1.9M
4.	Personal Care	1.7M
5.	Fashion	1.4M
6.	Auto	592.7K
7.	Office	544.6K
8.	null	421.6K
9.	Baby	411.8K
10.	Books, Music, and Movies	281.8K
11.	Tools	267.9K
12.	Pets	214.3K
13.	Misc	90.6K
14.	Food and Beverage	67K
	Grand total	13.6M

1-14/14



988K

912K

729.8K 635.3K 632.2K 592.7K

auto



Descriptive Statistics (bins of 100)

3.2K

301-400

7.1K

201-300

1.2K

401-500

1.1K

501-600

628

601-700

452

701-800

367

801-900

Order Count

Order Value Distribution

58K

60K

40K

20K

Record Count

26K

101-200

100.0K

Total Sales

13.7M

Avg Order Value

138.34

Med Order Value

87

Sales by Order Value Bin

000-100

Max Order Value

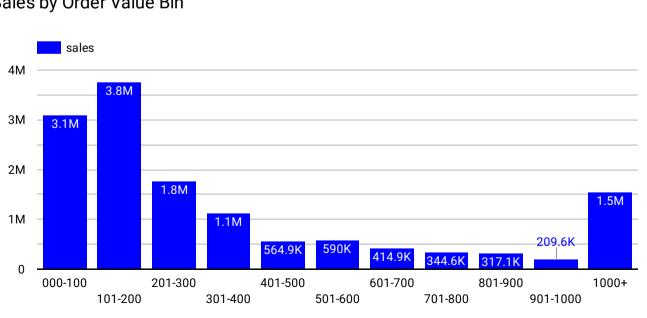
13,440

Min Order Value

0.85

STD Order Value

211.13



Average order value for Olist has a much higher mean of R\$138 than the median of R\$87, which suggests a long tail of higher-value orders. This is visually evident in the histograms. where the distribution of order values shows a significant number of highvalue orders that elevate the average. Specifically, we can see that 1.7k orders were over R\$1000 and made up R\$1.5M in total sales. This indicates that less than 2% of total orders contributed to over 11% of total sales.

This disparity highlights the importance of high-value orders in driving overall revenue. While the majority of orders are clustered around lower values, the presence of these high-value orders significantly impacts the business's financial performance.

This insight can guide strategic decisions in several areas:

- customer segmentation
- product and pricing

1.7K

1000+

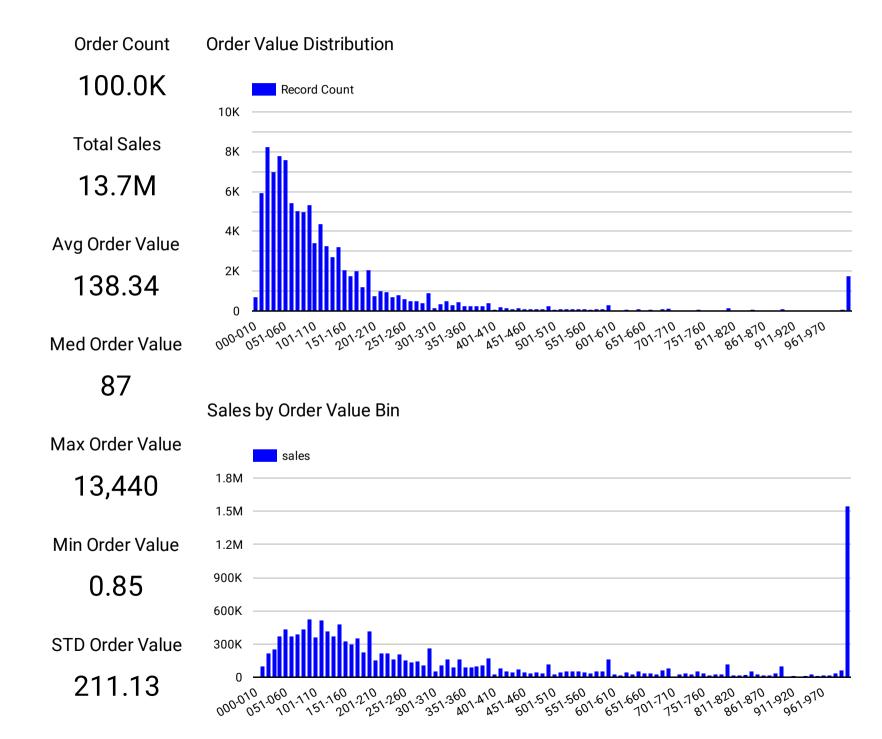
216

901-1000

- inventory management
- sales and revenue forecasting

olist

Descriptive Statistics (bins of 10)



Average order value for Olist has a much higher mean of R\$138 than the median of R\$87, which suggests a long tail of higher-value orders. This is visually evident in the histograms, where the distribution of order values shows a significant number of high-value orders that elevate the average. Specifically, we can see that 1.7k orders were over R\$1000 and made up R\$1.5M in total sales. This indicates that less than 2% of total orders contributed to over 11% of total sales.

This disparity highlights the importance of high-value orders in driving overall revenue. While the majority of orders are clustered around lower values, the presence of these high-value orders significantly impacts the business's financial performance.

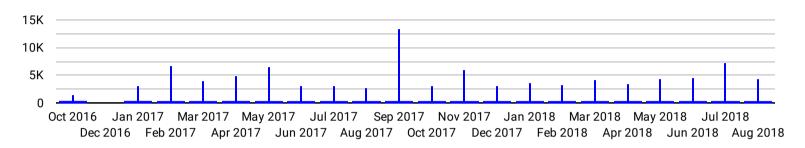
This insight can guide strategic decisions in several areas:

- customer segmentation
- product and pricing
- inventory management
- sales and revenue forecasting

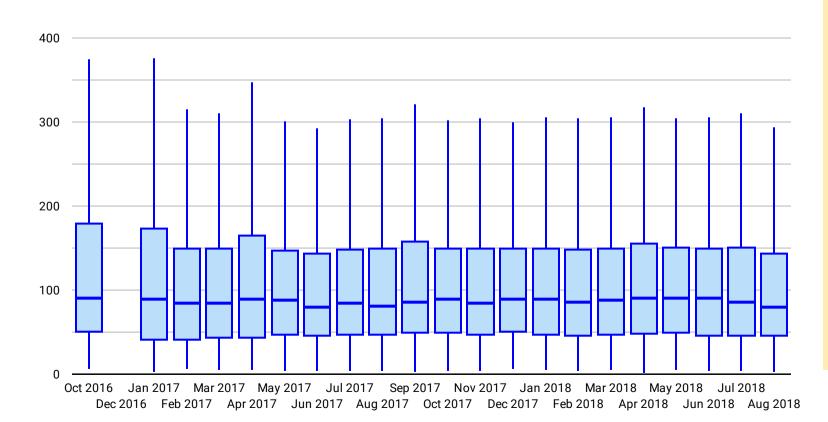


Order Value Distribution

Order Value Boxplots (upper whisker extends to max value)



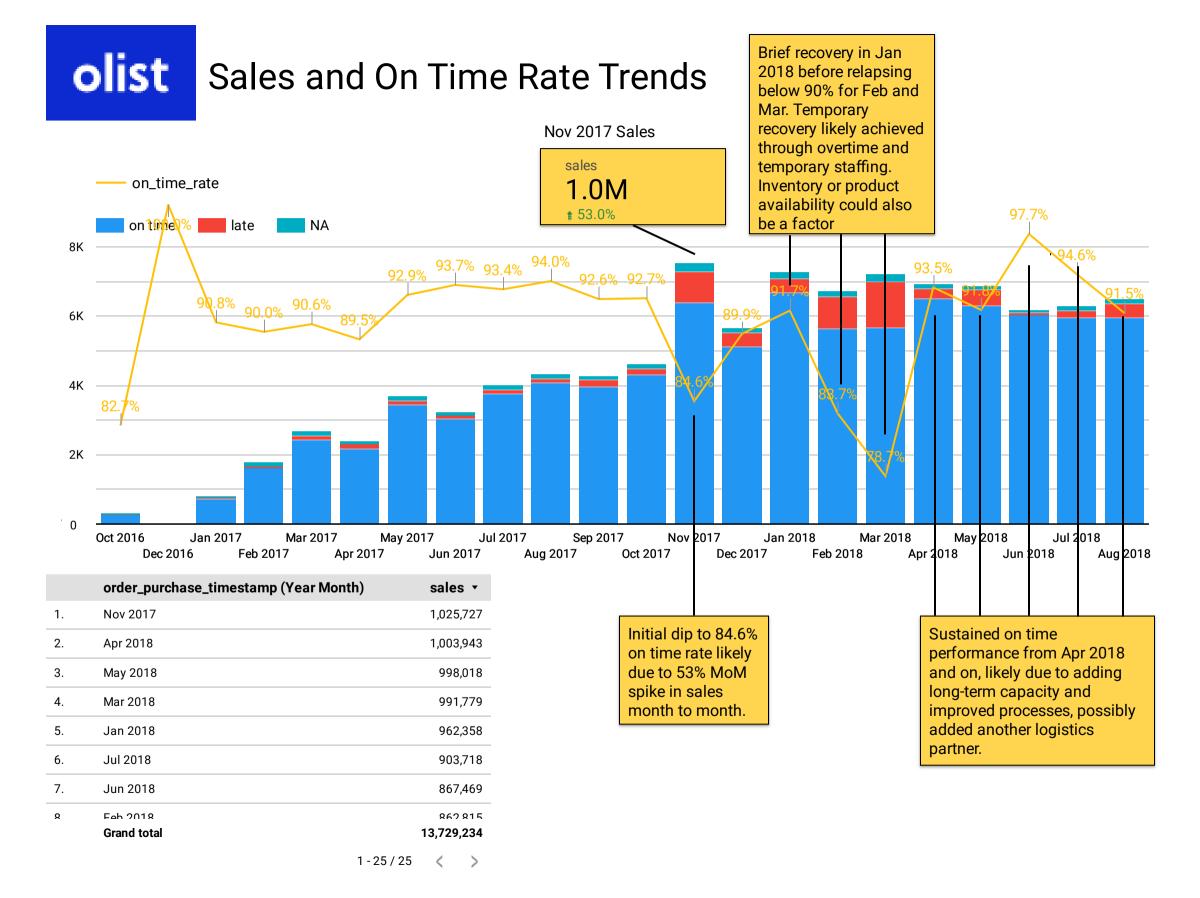
Order Value Boxplots (traditional boxplot)



The boxplots provide insightful visual representations of order values across different months. They reveal that about 75% of the orders are roughly under R\$150 for the majority of months where we have sales data. This indicates that the bulk of Olist's orders are relatively modest in value.

Additionally, the boxplots show that the maximum order value has reached as high as R\$13,000, and orders beyond the 75th percentile can vary drastically in size. This wide range of order values could indicate the following:

- Diverse customer base
- High variety in product offerings
- High variability in product pricing including big-ticket items
- Selling items in bulk



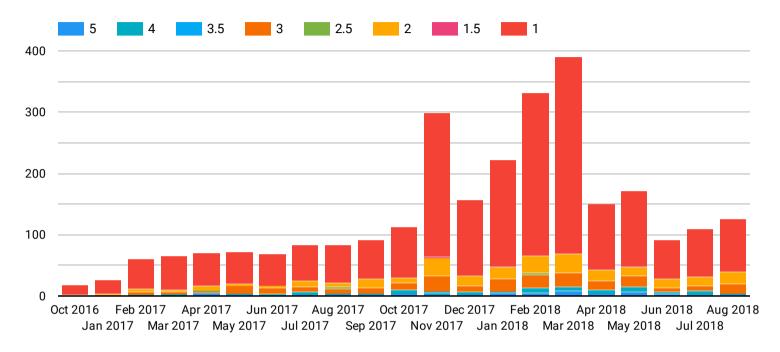


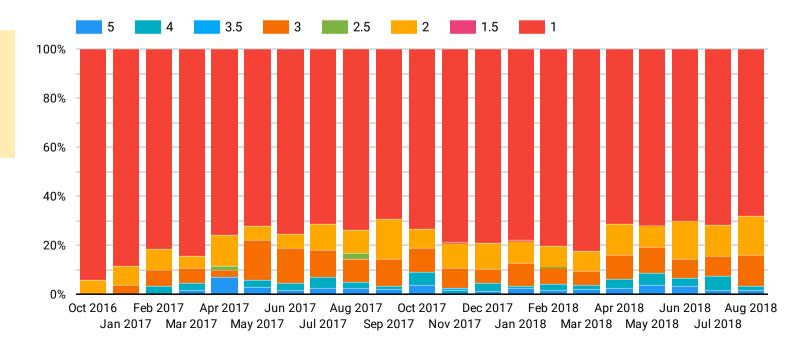
on the right.

Customer Review Trends

	review_cat	Record Count 💌		
1.	did_not_leave_a_review	59,109		
2.	Uncategorized	19,484		
3.	good_experience	8,089		
4.	arrived_early	6,673		
5.	did_not_receive	2,804		
6.	good_quality	2,797		
7.	poor_quality	397		
8.	wrong_product	346		
9.	poor_experience	330		

If we filter on "did_not_receive" or "poor_experience" we can see the poor reviews correlate with the big increase in sales starting Nov 2017. Highlighting the importance of accurate forecasting

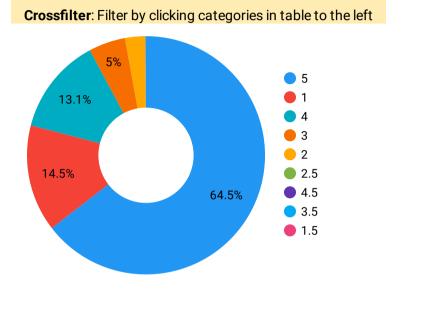




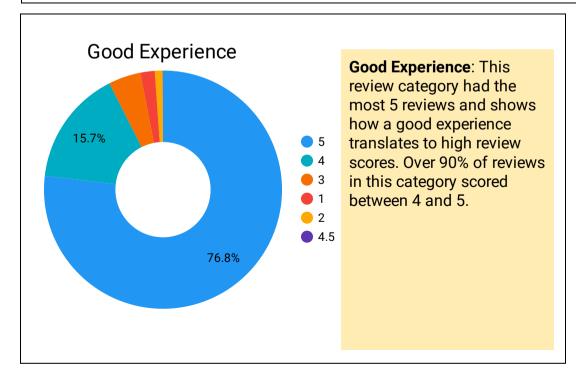


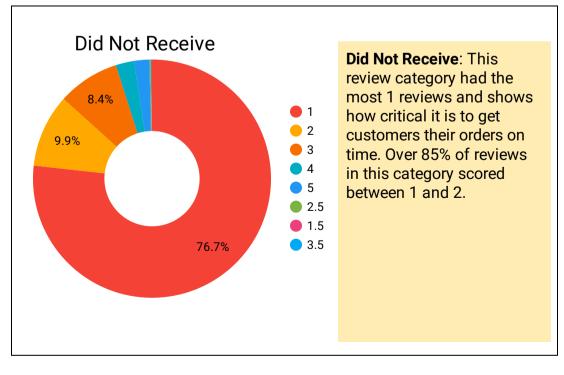
Customer Reviews by Review Category

review_cat	1	1.5	2	2.5	3	3.5	4	4.5	5
good_experience	158	-	86	-	355	-	1,270	4	6,216
arrived_early	84	-	44	2	167	2	867	2	5,505
did_not_receive	2,152	3	278	5	236	2	70	-	58
good_quality	45	-	34	-	179	1	553	1	1,984
poor_quality	241	1	57	-	65	-	18	-	15
wrong_product	221	-	42	4	34	-	21	-	24
poor_experience	211	-	43	-	31	-	16	-	29
Grand total	3,112	4	584	11	1,067	5	2,815	7	13,831



records without a review and that were not categorized were excluded from the analysis







Pareto Principle or 80/20 rule

